

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently amended): A magnetic head, comprising:
 - 2 a first magnetic pole layer;
 - 3 a first electrical insulation layer being disposed upon said first magnetic pole layer;
 - 4 a second electrical insulation layer being disposed upon said first insulation layer;
 - 5 a heating device being disposed upon said first electrical insulation layer and within said
 - 6 second electrical insulation layer, said heating device being disposed above said first magnetic
 - 7 pole layer;
 - 8 a third electrical insulation layer being disposed upon said second electrical insulation
 - 9 layer, where said third electrical insulation layer is not disposed upon an upper surface of said
 - 10 heating device;
 - 11 a fourth electrical insulation layer being disposed upon said upper surface of said heating
 - 12 device and upon said third electrical insulation layer;
 - 13 a first magnetic pole pedestal member being disposed above said heating device, such
 - 14 that said heating device is disposed between said first magnetic pole layer and said first magnetic
 - 15 pole pedestal.
- 1 2. (Original): A magnetic head as described in claim 1 wherein said heating device includes
2 an electrically resistive heating element.

1 3. (Original): A magnetic head as described in claim 2 wherein said heating device includes
2 a pair of electrical leads, and wherein said electrically resistive heating element is disposed
3 directly beneath said leads.

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1 4. (Original): A magnetic head as described in claim 3 wherein said electrically resistive
2 heating element includes an outer edge, and each of said electrical leads includes an outer edge,
3 and wherein said outer edge of said electrically resistive heating element and said outer edges of
4 said electrical leads are aligned in a plane.

1 5. (Cancelled):

1 6. (Currently amended): A magnetic head as described in claim 5 1 wherein said first
2 electrical insulation layer is thicker than said second fourth electrical insulation layer.

1 7. (Currently amended): A magnetic head as described in claim 6 wherein said first
2 electrical insulation layer is approximately 1,000 Å thick, and said second fourth electrical
3 insulation layer is approximately 250 Å thick.

1 8. (Original): A magnetic head as described in claim 2 wherein said electrically resistive
2 heating element is a layer of electrically conductive material having a thickness of approximately
3 400 Å, and having a track width of approximately 2 microns and a stripe height of approximately
4 .5 microns.

1 9. (Original): A magnetic head as described in claim 8 wherein said electrically resistive
2 heating element is comprised of NiCr or NiFe.

1 10. (Currently amended): A magnetic head as described in claim 8 wherein the magnetic
2 head includes an air bearing surface, and wherein said heating device is disposed away from said
3 air bearing surface, and wherein a portion of said second electrical insulation layer is disposed
4 between said heating device and said air bearing surface.

1 11. (Currently amended): A hard disk drive including a magnetic head, comprising:
2 a read head element;
3 a write head element, including;
4 a first magnetic pole layer;
5 a first electrical insulation layer being disposed upon said first magnetic pole layer;
6 a second electrical insulation layer being disposed upon said first insulation layer;
7 a heating device being disposed upon said first electrical insulation layer and within said
8 second electrical insulation layer, said heating device being disposed above said first magnetic
9 pole layer;
10 a third electrical insulation layer being disposed upon said second electrical insulation
11 layer, where said third electrical insulation layer is not disposed upon an upper surface of said
12 heating device;

13 a fourth electrical insulation layer being disposed upon said upper surface of said heating
14 device and upon said third electrical insulation layer;

15 a first magnetic pole pedestal member being disposed above said heating device, such
16 that said heating device is disposed between said first magnetic pole layer and said first magnetic
17 pole pedestal.

1 ~~a media heating device; wherein said write head element includes a first magnetic pole~~
2 ~~and a first magnetic pole pedestal, and wherein said heating device is disposed between said P1~~
3 ~~magnetic pole and said P1 pole pedestal.~~

1 12. (Original): A hard disk drive as described in claim 11 wherein said heating device
2 includes an electrically resistive heating element.

1 13. (Cancelled):

1 14. (Currently amended): A hard disk drive as described in claim 13 11 wherein said first
2 electrical insulation layer is thicker than said ~~second~~ fourth electrical insulation layer.

1 15. (Currently amended): A hard disk drive as described in claim 14 wherein said first
2 electrical insulation layer is approximately 1,000 Å thick, and said ~~second~~ fourth electrical
3 insulation layer is approximately 250 Å thick.

1 16. (Original): A hard disk drive as described in claim 12 wherein said electrically resistive
2 heating element is a layer of electrically conductive material having a thickness of approximately
3 400 Å, and having a track width of approximately 2 microns and a stripe height of approximately
4 .5 microns.

1 17. (Original): A hard disk drive as described in claim 16 wherein said electrically resistive
2 heating element is comprised of NiCr or NiFe.

1 18. (Currently amended): A hard disk drive as described in claim 11 wherein the magnetic
2 head includes an air bearing surface, and wherein said heating device is disposed away from said
3 air bearing surface, and wherein a portion of said second electrical insulation layer is disposed
4 between said heating device and said air bearing surface.

1 19. (Withdrawn): A method for fabricating a magnetic head including a media heating
2 device, comprising the steps of:

3 fabricating a first magnetic pole upon a layer of the magnetic head; fabricating a heating
4 device upon said first magnetic pole, said heating device including an electrically resistive
5 heating element and electrical leads;
6 fabricating a P1 pole pedestal upon said heating device.

1 20. (Withdrawn): A method for fabricating a magnetic head as described in claim 19
2 including the further steps of:

3 fabricating a first electrical insulation layer between said first magnetic pole and said
4 heating device, and

5 fabricating a second electrical insulation layer between said heating device and said P1
6 pole pedestal.

1 21. (Withdrawn): A method for fabricating a magnetic head as described in claim 20 wherein
2 said first electrical insulation layer is thicker than said second electrical insulation layer.

1 22. (Withdrawn): A method for fabricating a magnetic head as described in claim 19 wherein
2 said heating element is a layer of electrically conductive material having a thickness of
3 approximately 400 Å, and having a track width of approximately 2 microns and a stripe height of
4 approximately .5 microns.

1 23. (Withdrawn): A method for fabricating a magnetic head as described in claim 19,
2 wherein at least a portion of an edge of said electrically resistive heating element and a portion of
3 an edge of said electrical leads are fabricated in a single milling process step.

1 24. (Withdrawn): A method for fabricating a magnetic head as described in claim 23,
2 wherein said electrically resistive heating element and said electrical leads are formed away from
3 an air bearing surface of said magnetic head.